Electronic Version
Stylesheet Version v1.1.1

OPTICAL DISC DRIVE WHICH CAN DETECT AND CORRECT BI-PHASE DATA ERRORS

Abstract

An optical disc drive includes an optical pickup for reading an RF datum in an optical disc, an FM demodulator for demodulating the RF datum so as to generate a bi-phase datum, a bi-phase data rule checker for checking if phases at each edge of neighboring bit cells are different, a bi-phase data corrector for generating a plurality of bi-phase data when the bi-phase data rule checker detects that at least one pair of phases at the edges of neighboring bit cells are not different, a bi-phase demodulator for demodulating the plurality of bi-phase data so as to generate a plurality of ATIP signals, a CRC checker for testing the plurality of ATIP signals, and a multiplexer for selecting a correct ATIP signal according to a test result of the CRC checker.